Notice of Allowability	Application No.	Applicant(s)		
	10/771,854	LAM ET AL.		
	Examiner	Art Unit		
	Stephen Elmore	2185		
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	blication. If not includ- will be mailed in due	ed course. THIS	
1. $\boxtimes$ This communication is responsive to <u>the RCE filed Decem</u>	ber 7, 2006.			
2. ☑ The allowed claim(s) is/are <u>1-74</u> .		•		
<ul> <li>3. Acknowledgment is made of a claim for foreign priority ur</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have</li> <li>2. Certified copies of the priority documents have</li> </ul>	e been received.			
Copies of the certified copies of the priority do     International Bureau (PCT Rule 17.2(a)).  * Continue potential resolved:	cuments have been received in this I	national stage applica	tion from the	
* Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the re	quirements	
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			IOTICE OF	
<ol> <li>CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers         <ol> <li>to Paper No./Mail Date</li> <li>including changes required by the attached Examiner's Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the state of the sheet in the such sheet.</li> </ol> </li> </ol>	son's Patent Drawing Review(PTO-to-to-to-to-to-to-to-to-to-to-to-to-to-	office action of	· e back) of	
DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATERIAL n	nust be submitted.	Note the	
*				
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal P	atent Application		
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		6. ☐ Interview Summary (PTO-413),		
3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 12/7/06		Paper No./Mail Date 7. ⊠ Examiner's Amendment/ <del>Comment-</del>		
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Stateme 9. □ Other	<ul><li>8. ⊠ Examiner's Statement of Reasons for Allowance</li><li>9. ☐ Other</li></ul>		
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Application/Control Number: 10/771,854

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## **EXAMINER'S AMENDMENT and REASONS FOR ALLOWANCE**

- 1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 2. The application has been amended as follows:

#### IN THE SPECIFICATION

page 12, line 2, after "17, 2002, " insert --now U.S. Patent 7,058,788, --.

### REASONS FOR ALLOWANCE

3. The following is an examiner's statement of reasons for allowance:

In independent claims 1, 13, 25, 37, 49, 62, 68 and 74, directed towards a method and system for storing data, the following features taken in combination with the remaining limitations of the independent claims are not found in and/or are not obvious in view of the prior art of record,

### Claim 1,

"detecting a change in the criterion to a second status" and "in response to the change, storing data pursuant to the delta replication operating mode";

## Claim 13,

"ascertaining a first status of a criterion pertaining to an activity performed by the one or more data storage systems while operating in the delta replication operating mode"; Art Unit: 2185

#### Claim 25,

"detecting a change in the criterion to a second status" and "store data in the one or more data storage systems pursuant to the delta replication operating mode, in response to the change";

# Claim 37,

"a processor configured to: ascertain a first status of a criterion pertaining to an activity performed by the one or more data storage systems while operating in the delta replication operating mode" and "in response to the change, store data pursuant to an alternative mode"; Claim 49,

"determining a condition; and in response to the condition: storing second data in the at least one first storage device; and recording one or more memory locations associated with the storing of the second data in the at least one first storage device";

#### Claim 62,

"in response to the detected first condition: storing data in the at least one first storage device; and recording in a database information identifying one or more data blocks in the at least one first storage device that are changed;" and "copying the one or more data blocks from the at least one first storage device to the at least on second storage device, based on the information, in response to the detected second condition";

# Claim 68,

"if the first status is detected: causing the data to be stored" and "if the second status is detected: storing the data in the at least one first storage device; and recording one or more storage locations of the stored data in the at least one first storage device";

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Claim 74,

"determine a condition; and in response to the condition: store second data in the at least one first storage device; and record one or more memory locations associated with the storing of the second data in the at least one first storage device".

**Conclusion** 

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen Elmore whose telephone number is (571) 272-4436. The examiner can normally be reached on Mon-Fri from 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sanjiv Shah can be reached on (571) 272-4098. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

January 6, 2007

STEPHEN C. ELMORE PRIMARY EXAMINER